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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/885,707	06/20/2001	Arnoldus Werner Johannes Oomen	NL 000332 4224		
24737	7590 04/19/2006		EXAMINER		
PHILIPS IN	TELLECTUAL PROP	OPSASNICK, MICHAEL N			
P.O. BOX 300 BRIARCLIFE	01 MANOR, NY 10510	ART UNIT	PAPER NUMBER		
Diameter 1	1,11,1,101,1,11,1,101,10		2626		
			DATE MAILED: 04/19/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Action Summary		09/885,70	7	OOMEN ET AL.				
		Examiner		Art Unit				
			. Opsasnick	2626				
The M Period for Reply	IAILING DATE of this communic	ation appears on the	cover sheet with the c	orrespondence ad	ldress			
THE MAILING - Extensions of til after SIX (6) MC - If the period for - If NO period for - Failure to reply any reply receive	ED STATUTORY PERIOD FO G DATE OF THIS COMMUNIC me may be available under the provisions of NTHS from the mailing date of this commu- reply specified above is less than thirty (30) reply is specified above, the maximum statu within the set or extended period for reply w- red by the Office later than three months after term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no evenication. days, a reply within the statutory period will apply and will. III. by statute. cause the apply.	ent, however, may a reply be tim utory minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timel the mailing date of this c O (35 U.S.C. § 133).	ly. ommunication.			
Status								
1)⊠ Respor	nsive to communication(s) filed	on 30 December 20	<u>005</u> .					
,	☐ This action is FINAL. 2b) ☐ This action is non-final.							
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of C	laims							
4a) Of t 5)⊠ Claim(s 6)⊠ Claim(s 7)□ Claim(s	s) <u>1-11</u> is/are pending in the ap he above claim(s) is/are s) <u>1-8 and 11</u> is/are allowed. s) <u>9,10</u> is/are rejected. s) is/are objected to. s) are subject to restricti	e withdrawn from co						
Application Pap	ers							
9)∐ The spe	ecification is objected to by the	Examiner.						
10)□ The dra	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
• •	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
•	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)∐ The oat	h or declaration is objected to	by the Examiner. No	te the attached Office	Action or form P	ГО-152.			
Priority under 3	5 U.S.C. § 119							
a)⊠ All 1.⊠ 0 2.□ 0 3.□ 0	reledgment is made of a claim for b) Some * c) None of: Certified copies of the priority described copies of the priority described copies of the priority described copies of the certified copies of application from the Internation attached detailed Office action	ocuments have bee ocuments have bee f the priority docume al Bureau (PCT Rul	n received. n received in Application ents have been receive e 17.2(a)).	on No ed in this National	Stage			
Attachment(s)			_					
1) Notice of Refer	rences Cited (PTO-892)	0.040)	4) Interview Summary Paper No(s)/Mail Da					
	sperson's Patent Drawing Review (PToclosure Statement(s) (PTO-1449 or Pail Date		5) Notice of Informal P		O-152)			

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DETAILED ACTION

1. Upon further reconsideration of applicant's arguments as requested by applicant's representative in a Pre-Appeal Brief Request dated 1/6/2006, the finality of the Office Action mailed 9/9/2005 is removed, and prosecution on the merits is reopened.

Specification

2. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a).

- "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).



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- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (1) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 9 and 10 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 9 defines non-statutory processes because it merely manipulates a signal via a mathematical algorithm without a claimed limitation to a practical application. The disclosed invention has a practical application in the technological arts (e.g encoding and transmission of audio signals); however, the claimed process, a series of steps to be performed on a computer, simply manipulates an abstract idea without a claimed limitation to the practical application and does not have any post or pre computer process activity.

Claims 10 defines a non-statutory process because it merely stores data pertaining to a mathematical algorithm without a claimed limitation to a practical application. The disclosed invention has a practical application in the technological arts (e.g encoding and transmission of audio signals); however, the claimed process, a series of steps to be performed on a computer,

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simply manipulates an abstract idea without a claimed limitation to the practical application and does not have any post or pre computer process activity. Examiner notes that amending the claim language of claim 10 from "A storage medium (3) on" to "A storage medium (3) executing program instruction stored thereon to encode..." would overcome the 101 rejection. Merely claiming nonfunctional descriptive material stored in a computer-readable medium does not make it statutory. Such a result would exalt form over substance. In re Sarkar, 588 F.2d 1330, 1333, 200 USPQ 132, 137 (CCPA 1978) ("[E]ach invention must be evaluated as claimed; yet semantogenic considerations preclude a determination based solely on words appearing in the claims. In the final analysis under 101, the claimed invention, as a whole, must be evaluated for what it is.") (quoted with approval in Abele, 684 F.2d at 907, 214 USPQ at 687). See also In re Johnson, 589 F.2d 1070, 1077, 200 USPQ 199, 206 (CCPA 1978) ("form of the claim is often an exercise in drafting").

The disclosed invention of the instant application pertains to encoding and transmission of audio signals and their representations. This is a practical application within the technological arts. However, the claimed invention pertains to storing and comrpising parameters of a signal, which is a manipulation of an abstract idea without any limitation to a practical application.

Applicant should note, however, that claims directed to speech or audio signal processing, would be considered to be statutory subject matter. For example, the requirement of the measurements of physical objects or activities to be transformed outside of the computer into computer data (In re Gelnovatch, 595 F.2d 32, 41 n.7, 201 USPQ 136, 145 n.7 (CCPA 1979) (data- gathering step did not measure physical phenomenon); Arrhythmia, 958 F.2d at 1056, 22 USPQ2d at 1036), where the data comprises signals corresponding to physical objects or

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activities external to the computer system, and where the process causes a physical transformation of the signals which are intangible representations of the physical objects or activities. Schrader, 22 F.3d at 294, 30 USPQ2d at 1459 citing with approval Arrhythmia, 958 F.2d at 1058-59, 22 USPQ2d at 1037-38; Abele, 684 F.2d at 909, 214 USPQ at 688; In re Taner, 681 F.2d 787, 790, 214 USPQ 678, 681 (CCPA 1982).

Examples of this type of claimed statutory process include the following:

- A method of using a computer processor to analyze electrical signals and data representative of human cardiac activity by converting the signals to time segments, applying the time segments in reverse order to a high pass filter means, using the computer processor to determine the amplitude of the high pass filter's output, and using the computer processor to compare the value to a predetermined value. In this example the data is an intangible representation of physical activity, i.e., human cardiac activity. The transformation occurs when heart activity is measured and an electrical signal is produced. This process has real world value in predicting vulnerability to ventricular tachycardia immediately after a heart attack.
- A method of using a computer processor to receive data representing

 Computerized Axial Tomography ("CAT") scan images of a patient, performing a calculation to
 determine the difference between a local value at a data point and an average value of the data in
 a region surrounding the point, and displaying the difference as a gray scale for each point in the
 image, and displaying the resulting image. In this example the data is an intangible
 representation of a physical object, i.e., portions of the anatomy of a patient. The transformation
 occurs when the condition of the human body is measured with X-rays and the X-rays are
 converted into electrical digital signals that represent the condition of the human body. The real

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world value of the invention lies in creating a new CAT scan image of body tissue without the presence of bones.

- A method of using a computer processor to conduct seismic exploration, by imparting spherical seismic energy waves into the earth from a seismic source, generating a plurality of reflected signals in response to the seismic energy waves at a set of receiver positions in an array, and summing the reflection signals to produce a signal simulating the reflection response of the earth to the seismic energy. In this example, the electrical signals processed by the computer represent reflected seismic energy. The transformation occurs by converting the spherical seismic energy waves into electrical signals which provide a geophysical representation of formations below the earth's surface. Geophysical exploration of formations below the surface of the earth has real world value.

Examples of claimed processes that independently limit the claimed invention to safe harbor include:

-a method of conducting seismic exploration which requires generating and manipulating signals from seismic energy waves before "summing" the values represented by the signals (Taner, 681 F.2d at 788, 214 USPQ at 679); and

- a method of displaying X-ray attenuation data as a signed gray scale signal in a "field" using a particular algorithm, where the antecedent steps require generating the data using a particular machine (e.g., a computer tomography scanner). Abele, 684 F.2d at 908, 214 USPQ at 687 ("The specification indicates that such attenuation data is available only when an X-ray beam is produced by a CAT scanner, passed through an object, and detected upon its exit. Only

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after these steps have been completed is the algorithm performed, and the resultant modified data displayed in the required format.").

Examples of claimed processes that do not limit the claimed invention to precomputing safe harbor include:

- "perturbing" the values of a set of process inputs, where the subject matter "perturbed" was a number and the act of "perturbing" consists of substituting the numerical values of variables (Gelnovatch, 595 F.2d at 41 n.7, 201 USPQ at 145 n.7 ("Appellants' claimed step of perturbing the values of a set of process inputs (step 3), in addition to being a mathematical operation, appears to be a data-gathering step of the type we have held insufficient to change a nonstatutory method of calculation into a statutory process.... In this instance, the perturbed process inputs are not even measured values of physical phenomena, but are instead derived by numerically changing the values in the previous set of process inputs.")); and

- selecting a set of arbitrary measurement point values (Sarkar, 588 F.2d at 1331, 200 USPQ at 135). If a claim does not clearly fall into one or both of the safe harbors, the claim may still be statutory if it is limited to a practical application in the technological arts.

Allowable Subject Matter

- 5. Claims 1-11 are allowed over the prior art of record.
- 6. The following is an examiner's statement of reasons for allowance:

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As per the independent claims, the claim recitations pertaining to the transmission of phase jitter parameters, along with the other elements as claimed, is not explicitly taught by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see related art listed on the PTO-892 form.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (571)272-7623, who is available Tuesday-Thursday, 9am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Richemond Dorvil, can be reached at (571)272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

mno 4/14/06

> RICHEMOND DORVIL SUPERVISORY PATENT EXAMINER